

Big Ox - Conference Call 11/21/16

MARSHALL NOTES

→ Kevin Bradley - Dir of Business Development (Wisconsin)

~~At~~ Rob Ernest - General Manager Big Ox

Construction background, Oversees Construction of Big Ox plant. Not an engineer

Rob -

who designed

the process system for the Big Ox

opened Sept 2, 2016. 5, 1/2 mile city lined and their left station, then 3.1 miles through

Black & Veatch is Big Ox's engineers,

Had issues of DAF in September - broke 7 or 8 times in Sept - had 1st Complaint - toward end of Sept
NO discharges for 2 wks

365,000 gal DAF

43 mgal to Ox only 16 million treated in Sept
Came in & overflowed DAF to wet well

VTX - proprietary denied mixed of Hydrogen peroxide.

→ City has sulfide info going back to 2012.

Oct 31 - city shut valve off feeding their system

on Nov 1, Big Ox has not discharges since then

slow 80 to 125,000 gal/d can be processed. Avg sulfide

@ 0.2 - measured by Deserec @ City

HDR did Big Ox air permit

Bleedly \$30K/day trucking and dump fees.

1 mile of force main \$700,000

had H2S valve in area a year ago

BTF open air hose - not captured. and not do any analysis testing

PCS is showing all data today

take pH - measuring first few days during PHS Row around 3.0

BPI - 8-9K/lean 3 flow - some days large CHS - 74K/day - Soybean processing

Richardson - 2 flow 100K per day - granular MF

50T email of off spec pH to Dr Big 3

Richardson + BPI case in Thruflow same type

heavy compressor in Minnehaha

Takes trucks in wastes for Tyson - but no water processed stuff

City is measuring what is trucked from Op

Op only samples temp & pH

3 or 4 milk - 100K upo launch

20 trucks max 5K @ 200

5

Plans to discharge to Dec 10 when industrial/domestic has been isolated. New truck in place.

B+V - more concrete about a year in. Tyson Kypell

into discharge. Closed system of ferric chloride. Last treatment

w/ B1, McClure & SCF

Trillium is purchasing their good water its all working properly. Input is minimum to keep system alive.

Water treatment was lost in September.

The Denver & H's membrane is plant